

Receipt date: 07/30/2009

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10696545
	Filing Date		2003-10-29
	First Named Inventor	Xunming Deng	
	Art Unit	1795	
	Examiner Name	Jeffrey Thomas Barton	
	Attorney Docket Number	1-25574	

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
/JB/	1	6221685		2001-04-24	ICHINOSE et al.		
	2	6222115		2001-04-24	NAKANISHI		
	3	6242686		2001-06-05	KISHIMOTO et al.		
	4	6361660		2002-03-26	GOLDSTEIN		
	5	6471850		2002-10-29	SHIEPE et al.		
	6	6471834		2002-10-29	ROE et al.		
/JB/	7	6566594		2003-05-20	SANO et al.		
If you wish to add additional U.S. Patent citation information please click the Add button.							Add
U.S.PATENT APPLICATION PUBLICATIONS							Remove

/Jeffrey Barton/

08/27/2009

Receipt date: 07/30/2009

Application Number	10696545
Filing Date	2003-10-29
First Named Inventor	Xunming Deng
Art Unit	1795
Examiner Name	Jeffrey Thomas Barton
Attorney Docket Number	1-25574

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear

If you wish to add additional U.S. Published Application citation information please click the Add button. [Add](#)

FOREIGN PATENT DOCUMENTS

[Remove](#)

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
/JB/	1	JP-2000264053			2000-09-26	Tagawa Satoshi et al.		<input type="checkbox"/>
	2	JP-2277592			1990-11-14	Kawabata Shigeyuki		<input type="checkbox"/>
	3	JP-362092380			1987-04-27	Owada et al.		<input type="checkbox"/>
/JB/	4	JP-408051227			1996-02-20	Sano et al.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button. [Add](#)

NON-PATENT LITERATURE DOCUMENTS

[Remove](#)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/JB/	1	Miller, E.L.; Rocheleau, R.E., Deng, X.M., Design considerations for a hybrid amorphous silicon/photoelectrochemical multi-junction cell for hydrogen production, Int. J. Hydrogen Energy, 28(6), 2003, 615-623.	<input type="checkbox"/>

/Jeffrey Barton/

08/27/2009

Receipt date: 07/30/2009 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10696545
	Filing Date		2003-10-29
	First Named Inventor	Xunming Deng	
	Art Unit	1795	
	Examiner Name	Jeffrey Thomas Barton	
	Attorney Docket Number	1-25574	

/JB/	2	Bak, T.; Nowotny, J.; Rekas, M.; Sorrell, C.C., Photo-electrochemical hydrogen generation from water using solar energy, Materials-related aspects, Int. J. Hydrogen Energy, 27 (10), 2002, 991-1022.	<input type="checkbox"/>
	3	Ohmori, T.; Go, H.; Yamaguchi, N.; Nakayama, A; Mametsuka, H.; Suzuki, E., Photovoltaic water electrolysis using the sputter-deposited a-Si/c-Si solar cells, Int. J. Hydrogen Energy 26 (7), 2001, 661-664.	<input type="checkbox"/>
	4	Ulleberg, O., Modeling of advanced alkaline electrolyzers: a system simulation approach, Int. J. Hydrogen Energy, 28 (1), 2003, 21-33.	<input type="checkbox"/>
	5	El-Shatter, Th.F., Eskandar, M.N., El-Hagry, M.T., Hybrid PV/fuel cell system design and simulation, Renewable Energy 27(2002) 479-485.	<input type="checkbox"/>
	6	Hollmuller, P., Joubert, J-M., Lachal, B., Yvon, K., Evaluation of a 5 kWp photovoltaic hydrogen production and storage installation for a residential home in Switzerland, Int. J. Hydrogen Energy, 25 (2) 2000, 97-109.	<input type="checkbox"/>
	7	Abaoud, H., Steeb, H., The German-Saudi HYSOLAR Program, Int. J. Hydrogen Energy, 23(6) 1998, 445-449.	<input type="checkbox"/>
	8	Szyska, A., Ten years of solar hydrogen demonstration project at Neunburg Vorm Wald, Germany, Int. J Hydrogen Energy, 23(10), 1998, 849-860.	<input type="checkbox"/>
	9	Bolton, J.R., Solar photoproduction of hydrogen: a review, Solar Energy, 57, 37-50 (1996).	<input type="checkbox"/>
	10	Kocha, S.S., Montgomery, D., Peterson, M.W. , Turner, JA, Photoelectrochemical decomposition of water utilizing monolithic tandem cells, Solar Energy Materials & Solar Cells, 52, 389-397 (1998).	<input type="checkbox"/>
	11	Licht, S., Efficient solar generation of hydrogen fuel -- a fundamental analysis, Electrochemistry Communications 4, 790-795 (2002).	<input type="checkbox"/>
/JB/	12	Shukla, P.K., Karn, R.K., Singh, A.K., Srivastava, O.N., Studies on PV assisted PEC solar cells for hydrogen production through photoelectrolysis of water, Int. J. of Hydrogen Energy, 27, 135-141 (2002).	<input type="checkbox"/>

Receipt date: 07/30/2009

Application Number	10696545
Filing Date	2003-10-29
First Named Inventor	Xunming Deng
Art Unit	1795
Examiner Name	Jeffrey Thomas Barton
Attorney Docket Number	1-25574

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

/JB/	13	Gao, X., Kocha, S., Frank, A.J., Turner, J.A, Photoelectrochemical decomposition of water using modified monolithic tandem cells, Int. J. of Hydrogen Energy, 24, 319325 (1999).	<input type="checkbox"/>
	14	Rocheleau, R.E., Miller, E.L., Photoelectrochemical production of hydrogen: Engineering loss analysis, Int. J. Hydrogen Energy, 22, 771-782 (1997).	<input type="checkbox"/>
	15	Perez-Mendez, V., Morel, J., Kaplan, S. N. , Street, R. A., Detection of Charged Particles in Amorphous Silicon Layers, Nuclear Instruments and Methods in Physics Research, 252, 478-482 (1986).	<input type="checkbox"/>
	16	Hong, W.S., Miresghhi, A, Drewery, J.S., Jing, T., Kitsuno, Y., Lee, H., Kaplan, S.N., Perez-Mendez, V., Charged Particle Detectors Based on High Quality Amorphous Silicon Deposited with Hydrogen or Helium Dilution of Silane, IEEE Transactions on Nuclear Science, 42(4), August 1995, p. 240-246.	<input type="checkbox"/>
	17	Holcomb, D. E., Wintenburg, A., Deng, X.M., Pixelated Neutron Beam Monitor Development, Proc. of International Workshop on position-sensitive detectors, held at Hahn-Meitner-Institut, Berlin, Germany, June 28-30 (2001).	<input type="checkbox"/>
	18	Deng, X.M., Jones, S.J., Liu, T., Izu, M., Ovshinsky, S.R., Improved μ c-Si p-layer and a-Si i-layer materials using VHF plasma deposition, in Conference Record of the Twenty Sixth IEEE Photovoltaic Specialists Conference--1997, p.591-594 (1997).	<input type="checkbox"/>
	19	Wang, W., Povolny, H.S., Du, W., Liao, X.B., Deng, X.M., Triple-Junction a-Si Solar Cells with Heavily Doped Thin Interface Layers at the Tunnel Junctions, in Proc. of IEEE 29th Photovoltaic Specialist Conference, 2002.	<input type="checkbox"/>
	20	Povolny, H. S., Deng, X.M., High Rate Deposition of Amorphous Silicon Films Using HWCVD With a Coil-Shaped Filament, Thin Solid Films, Vol. 430, 125-129 (2003).	<input type="checkbox"/>
	21	Kymakis, E., Alexandrou, I., Amaratunga, G.A.J., High open-circuit voltage photovoltaic devices from carbon-nanotube-polymer composites, J. Application. Phys. 93 (3), 1764-1768 (2003).	<input type="checkbox"/>
	22	Pratima Agarwal, Povolny, H., Han, S., Deng, X.M., Study of SiGe:H Films and n-i-p Devices used in High Efficiency Triple Junction Solar Cells, J. Non-Crystalline Solids, (2002) Vol. 299-302-,pp.1213-1218.	<input type="checkbox"/>
/JB/	23	Liao et al.; AMPS MODELING OF NANOCRYSTALLINE Si P-LAYER IN a-Si NIP SOLAR CELLS; 29th annual IEEE photovoltaics conference 2002, New Orleans, LA, May 19-24, 2002; pp. 1234-1237.	<input type="checkbox"/>

Receipt date: 07/30/2009 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10696545
	Filing Date		2003-10-29
	First Named Inventor	Xunming Deng	
	Art Unit	1795	
	Examiner Name	Jeffrey Thomas Barton	
	Attorney Docket Number	1-25574	

If you wish to add additional non-patent literature document citation information please click the Add button Add			
EXAMINER SIGNATURE			
Examiner Signature	/Jeffrey Barton/	Date Considered	08/27/2009
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>			
<p><small>¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.</small></p>			